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ABSTRACT OF THE DISCLOSURE

An electronically controlled hydraulic brake system is configured to obtain an attainment brake hydraulic pressure which can be achieved when a motor drive current command value is applied to a pressure increasing pump motor, to set a virtual initial pressure of the brake hydraulic pressure, to obtain a linear compensation executed attainment brake hydraulic pressure by linearly compensating the attainment brake hydraulic pressure using the actual brake hydraulic pressure, to calculate an ideal flow rate of the pressure increasing pump from a hydrodynamic flow rate equation, to obtain the linear compensation executed attainment brake hydraulic pressure by executing an inverse calculation of the flow rate equation from the ideal flow rate and the actual brake hydraulic pressure, and to obtain a linear compensation executed motor drive current command value by executing an inverse calculation of the calculation for obtaining the linear compensation executed attainment brake hydraulic pressure.